

FREQUENTLY ASKED QUESTIONS (FAQs)
Department of Electrical and Computer Engineering
University of Dayton

1. Why should I consider University of Dayton 's Electrical Engineering or Computer Engineering Programs?

UD's Electrical and Computer Engineering Department offers state of the art curricula taught by experienced and highly reputed engineering faculty who are performing cutting edge research in collaboration with the UD research institute, Air Force Research Laboratory, and several industries. Our department faculty are world renowned in areas such as Microwave Electronics, Radar Signal Processing, signal and image processing, reconfigurable computing and electronics. Several of our department faculty have won many awards (including UD's Alumni Award for Teaching, Alumni Award for Research, Sigma Xi's Noland Research Award, Harrell Noble Award given by the IEEE Dayton Section etc.). The department has six state of the art specialized laboratories that support the undergraduate curricula, apart from several graduate research laboratories. Our department offers undergraduate degrees in Electrical Engineering, and Computer Engineering, and graduate (M.S, and Ph.D) degrees in Electrical Engineering. The department also offers a multidisciplinary concentration of electro-optics, and Robotics to enable students to pursue new careers. The department also provides an accelerated program that allows students to complete their master's degree within a year after completion of their bachelor's degree. Graduate education leading to masters and doctoral degrees provides students with enhanced career opportunities and allows them to excel professionally. Graduates of the Electrical and Computer Engineering program are consistently well placed in government and industry. The demand for our students for co-operative education as well as job placements for our graduates are very high.

2. What's unique about UD's Electrical Engineering or Computer Engineering programs?

The Electrical Engineering and the Computer Engineering degree programs at the University of Dayton are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET Accreditation) for a 6 year period. The mission of the department, as well as the University of Dayton , is to develop students' skills and

knowledge in order to learn, lead, and serve in their profession and community.

3. Can students do Co-op programs as part of their curriculum?

All students majoring in engineering and engineering technology may participate in the cooperative education program. Students alternate semesters of full-time study with full-time work experience in positions related to their major. Generally, students remain with the same employer during alternating terms. Most students are eligible to interview for their first work term during their third semester of full-time study. Before beginning the co-op program, the interested student is required to have a Work/Study Calendar form signed and approved by the Electrical and Computer Engineering chairperson and the director of Cooperative Education.

4. Whom should I contact regarding co-op opportunities in Electrical and Computer Engineering?

The School of Engineering has a Co-operative Education Director (Mrs Nancy Forthhoffer) who is incharge of placing interested undergraduate students in co-op positions. For information on co-op opportunities, contact the Cooperative Education program office (KL 261);<http://careers.udayton.edu>.

5. What are the typical companies UD Electrical and Computer Engineering students co-op at?

Opportunities regularly exist at the University of Dayton Research Institute (UDRI) and Wright Patterson Air Force Base (WPAFB), and majority of the companies listed in 6.

6. What companies come to UD to recruit Electrical and Computer Engineering students?

There are a variety of companies that come to UD to recruit Electrical and Computer Engineering students. These companies include but are not

limited to:

- AK steel Corporation
- Anheuser-Busch, Inc.
- A.O Smith Electrical
- Avery Dennison
- Barco Simulation, LLC
- Cooper Tire & Rubber Company
- DRS Intelligence and Avionic Solutions
- Eaton Corporations
- FirstEnergy Corp.
- GE Aviation
- GE Consumer and Industry
- Honda Engineering North America, Inc
- Honda Transmission Mfg. of America Inc.
- Lafarge North America
- Marathon Petroleum Company LLC
- Miller Brewing Company
- Mound Laser & Photonics Center, Inc.
- PC Krause and Associates
- Premier System Integrators, Inc.
- Products Company
- UDRI Structural Integrity Div., IMMC
- Wright-Patterson Air Force Base
- YSI Inc.

7. Are there part-time jobs on campus that Electrical and Computer Engineering students can do?

The University has a wide range of part-time employment available for all students. Electrical and Computer Engineering students may find work either through the Office of Student Employment, or limited jobs through the Department of Electrical and Computer Engineering. They can also participate in a Professor's research activities as a research assistant.

8. Are there opportunities to work on multi-disciplinary projects at UD, as Electrical and Computer Engineering students?

Yes, we have opportunities for students to work with our professors and with University of Dayton Research Institute (UDRI) researchers on various engineering research projects. These are "for-pay" projects where the students gain valuable experiences and financial support.

9. What is the Innovation Center ? What do students do in the Innovation Center?

It is a transformational space on the first floor of Kettering Labs where all disciplines within our School and throughout the University come together to encounter, debate, address, investigate and solve multi-faceted questions. It has five major areas:

- Design, simulation and product realization center
- Conference and multimedia center
- Collaborative learning studio
- Demonstration and display center including resource library
- Administrative and faculty offices

The facilities encourage increased cross-campus collaborations, building on the University's strengths in business entrepreneurship, science research, and law and technology. The center is also a location for onsite and online undergraduate courses such as engineering law, engineering project management, finance for engineers, product development and entrepreneurial ventures.

10. How is academic advising done in Electrical and Computer Engineering?

All first year Electrical and Computer Engineering students will be advised by a team of advisors out of the Dean's office. By the end of first semester of attendance, students will be assigned a specific academic advisor from within the Electrical and Computer Engineering department faculty. Students and faculty advisors are expected to meet at least once a semester to check progress and provide assistance in scheduling. All course registration, drop/add, minor/concentration selection, thematic cluster registration, and other such activities require approval of the academic advisor. In case an advisor is unavailable and the matter cannot be delayed, the students should make an appointment to consult the Electrical and Computer Engineering chairperson.

11. How do I select classes and register classes every term?

All class selection occurs via register.udayton.edu. Students will be able to select courses they are interested in via that site approximately one month before their registration date. These classes must then be approved by their advisor. Once approved, students will be able to schedule online at their

assigned registration time.

12. Are faculty members easily accessible?

Faculty members are very accessible as they can be reached through email, office hours, and/or by phone. Each term, the faculty's syllabus will give his or her availability.

13. Will I have access to all of the software tools necessary for my classes all the time?

Computer facilities are readily accessible to all engineering students, and students receive early training in the use of industry-standard engineering design tools.

14. Are there departmental scholarships available?

Yes, they include the Dean of Engineering Scholarship, Department Chairman's Scholarship, and the Department Scholarship.

15. How do I apply for departmental scholarships?

Students do not apply for these. A student's admittance to the school and application is what qualifies them. ACT/SAT scores are taken into account when awarding these scholarships. Foreign applicants are also eligible for the department scholarships. At the Graduate level, there are many teaching and research scholarships available for candidates with outstanding credentials.

16. Are there opportunities to participate in professional organizations related to Electrical and Computer Engineering?

Electrical and Computer Engineering students may participate in student chapters of national organizations such as the Institute of Electrical and Electronic Engineers (IEEE) and the Association for Computer Machinery (ACM). These organizations provide an outlet for networking and provide sources for involvement in academic, social and competitive activities. The University of Dayton is one of only a few universities in the nation offering service clubs in engineering including ETHOS (Engineers in Technical Humanitarian Opportunities for Service-learning).

17. How can I become a student member of a Professional Organization?

Students interested in joining can attend any of the meetings periodically held by the organizations.

18. Are there other extra-curricular activities that students can participate in?

The University of Dayton is one of only a few universities in the nation offering service clubs in engineering including ETHOS (Engineers in Technical Humanitarian Opportunities for Service-learning).. Many students also participate in service organizations such as Big Brothers Big Sisters of America and Habitat for Humanity. In addition, students can join a wide variety of club and intramural sports offered by the University.

19. Are there any opportunities available to do research as an undergraduate Electrical/Computer Engineering student?

Yes, we have opportunities for undergraduate students to work with our professors and, as well, with University of Dayton Research Institute (UDRI) researchers on engineering research projects. These are “for-pay” projects where the students receive valuable experience and financial support.

20. What is the 5-year BS/MS program?

The 5-year BS/MS program is an accelerated program which allows undergraduate students to take two graduate level courses in place of undergraduate non-design Tech electives. Following completion of their undergraduate degree, they then will take an additional 24 graduate credit hours to complete the M.S. degree requirements.

21. When is a student eligible to apply for the 5 year BS/MS program?

Students with a GPA of 3.25 or better are eligible to apply as early as second semester of the junior year..

22. What specializations are available at the MS level for a 5 year BS/MS student?

Students may choose a specialization in Telecommunication Engineering, Signals and Systems or Digital Systems.

23. Can I get my BS degree after fulfilling the course requirements for BS, if I signed up for 5 year BS/MS program?

Yes, students will receive their B.S. degree upon successful completion of their undergraduate requirements

24. Is a 5 year BS/MS student eligible for Graduate Assistantships?

For qualified students, Graduate tuition scholarships and Teaching/Research Assistantships are available. The graduate assistantships are available only for those who have completed their undergraduate degree requirements.